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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/016,801	11/30/2001	Bin Zhao	12569-07/NEC	6082
_. 75	90 05/08/2003		•	•
STRADLING YOCCA CARLSON & RAUTH			EXAMINER	
IP Department 660 Newport Center Drive, Suite 1600		·	VY, HUNG T	
P.O. Box 7680 Newport Beach, CA 9	, CA 92660-6441		ART UNIT	PAPER NUMBER
			2828	

DATE MAILED: 05/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	6	′			
-	Application No	Applicant(s)				
· ·	10/016,801	ZHAO, BIN				
Office Action Summary	Examiner	Art Unit				
	Hung T Vy	2828				
The MAILING DATE of this communication app	pears on the cover shet with	the correspondence addr ss				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a repl y within the statutory minimum of thirty (3 vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 30 f	November 2001 .					
	is action is non-final.					
3) Since this application is in condition for allows	ance except for formal matte	rs, prosecution as to the merits is				
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application	.					
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.		ρ				
6)⊠ Claim(s) <u>1-18</u> is/are rejected.		Tank				
7) Claim(s) is/are objected to.		PAUL IP				
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800				
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	_				
14) ☐ Acknowledgment is made of a claim for domestic	•					
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has been	n received.				
Attachment(s)	s priority under 00 0.0.0. gs	, 120 and/01 121.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

1. In response to the communications dated 11/30/2001, claims 1-18 are pending in this application.

Specification

2. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

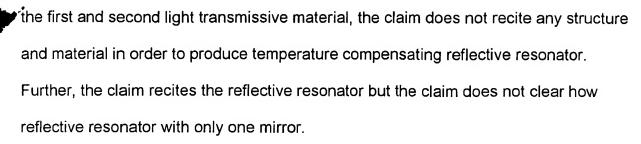
3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 the phrase "the first and second light transmissive materials cooperate with one another in manner with mitigates changes in an optical path length of the reflective resonator due to changes in temperature " renders the claim indefinite because it is unclear how light transmissive material cooperates. The claim only recites

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Regarding claims 4-5,7, 17 and 18, the claims are rendered indefinite because it is not clear how temperature compensating reflective resonator with the claims recite only the solid light transmissive material, a reflector and a gap. The claims do not recite any structure to support the temperature compensating.

Regarding claim 6, the claim is rendered indefinite because it is not clear how light transmissive material cooperates. The claim recite the first and second the light transmissive materials, the claim does not recite the structure in order to produce frequency locker.

Regarding claims 9, and 14, the phrase "Ohara Corporation S-FPL51 glass" renders claim indefinite because it is unclear how applicant can claim the name "Ohara Corporation S-FPL51 glass". The name "Ohara Corporation S-FPL51 glass" is belonged to Ohara corposration.

Claims 2,3, and 8-16 depend from rejected claim 1,4,5,6, 7,17 and 18 thereby render these dependent claims indefinite.

Double Patenting

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- 4. Claims 1-18 of this application conflict with claims 1-17 of Application

 No.10016729. 37 CFR 1.78(b) provides that when two or more applications filed by the
 same applicant contain conflicting claims, elimination of such claims from all but one
 application may be required in the absence of good and sufficient reason for their
 retention during pendency in more than one application. Applicant is required to either
 cancel the conflicting claims from all but one application or maintain a clear line of
 demarcation between the applications. See MPEP § 822.
 - 5. Claims 4 objected to under 37 CFR 1.75 as being a substantial duplicate of claim 5. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

claim. See MPEP § 706.03(k).

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 and 17-18 are rejected under 35 U. S. C. § 102 (b) as being anticipated by Conrad, U.S. patent No. 4,167,463.

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Regarding claims 1-6, Conrad discloses a device comprising: a first light transmissive material (14); a second light transmissive material (12); and wherein the first (14) and second light transmissive materials (12) cooperate with one another in manner which mitigates changes in an optical path length of the reflective resonator due to changes in temperature (See column 2, line 50-65), the second light transmissive material comprises a material selected from the group of air; vacuum; and liquid (See column 2, 36-44), a reflector (18), it is inherent the thermal coefficient of optical path length by given the formular: $\alpha_{op} = dOP/(OpdT)$ because when the device has the optical path length OP then the device will have the same fumular.

With respect to claims 17-18, the methods for mitigating undesirable efforts due to temperature are considered as product by process steps.

Claim Rejections - 35 U.S.C. § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-16 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Conrad, U.S. patent No. 4,167,463 in view of Donjon et al, U.S. Patent No. 3,781,469.

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Regarding claim 7, Conrad discloses all limitation of device except for a holder configured to hold the front surface of the light transmitting material at approximately a fixed distance to respect to the reflector. However, Donjon et al. disclose the holder the front surface of the light transmitting material (See fig. 1-4).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify Conrad to have holder as taught by donjon et al. because those skilled in the art will recognize that such modification and variations can be made without departing from the spirit of the invention.

Regarding claim 8-16, Conrad discloses the light transmitting material comprises glass (14) (See fig); the reflector comprises a mirror (18).

Citation of Pertinent References

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Brown et al. discloses Laser System Using Pentaphosphate Active Mediums, U.S. Patent No. 4,249,141.

Conclusion

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When responding to the office action, Applicants are advised to provide the

examiner with the line numbers and page numbers in the application and/or references

cited to assist the examiner to locate the appropriate paragraphs.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung Vy whose telephone number is (703) 605-0759.

The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul IP can be reached on (703) 308-3098. The fax numbers for the

organization where this application or proceeding is assigned are (703) 308-7722 for

regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

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SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

Hung T. Vy Art Unit 2828

April 26, 2003